

+

1/17

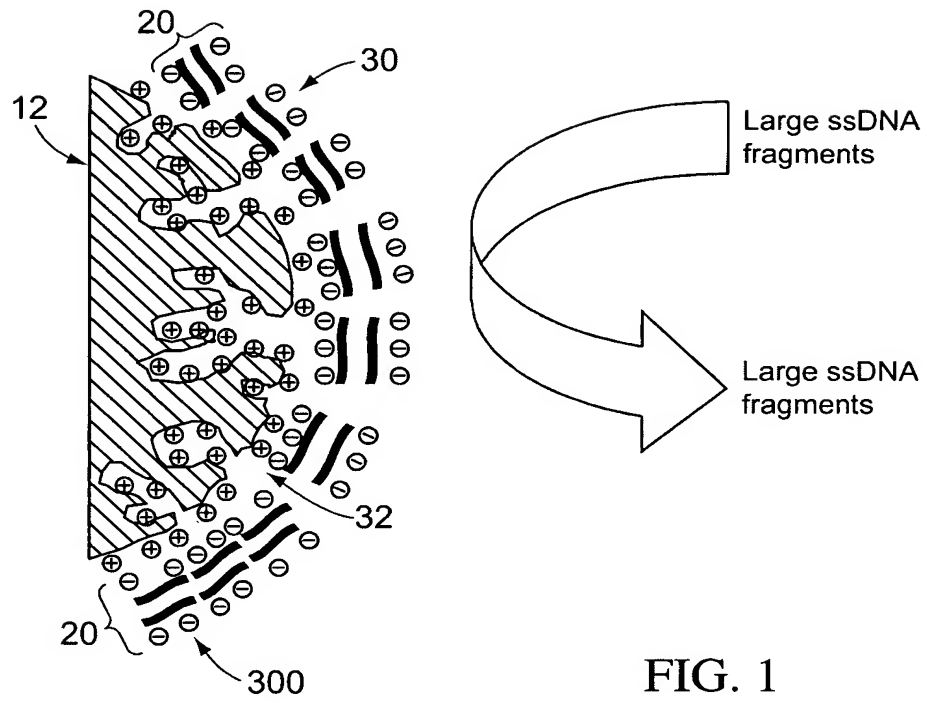


FIG. 1

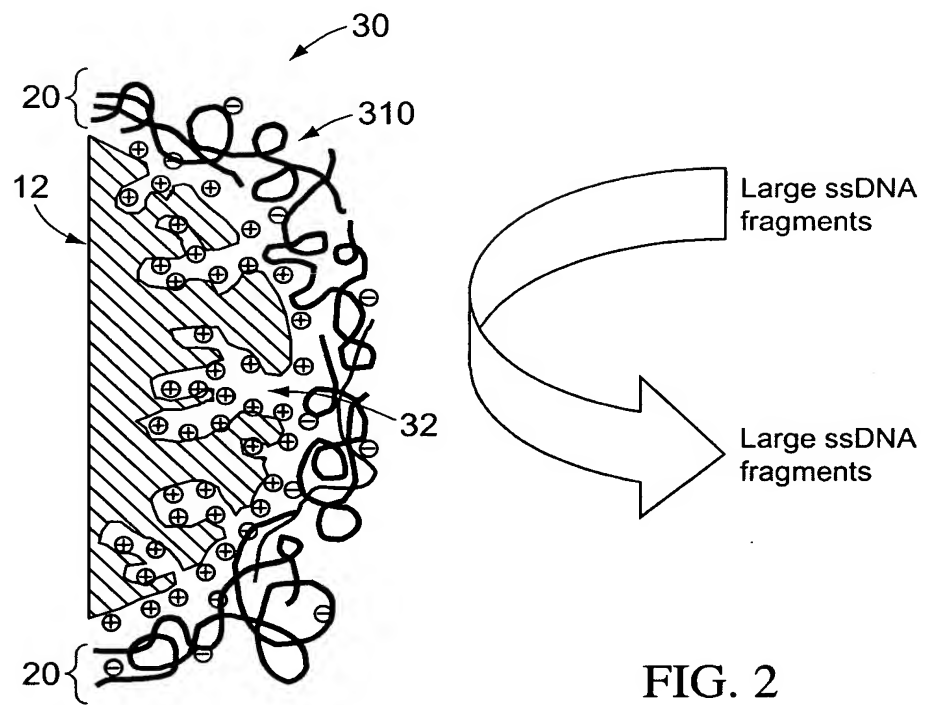
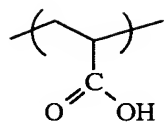


FIG. 2

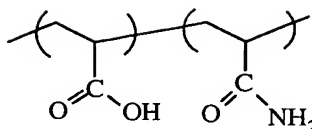
+

+

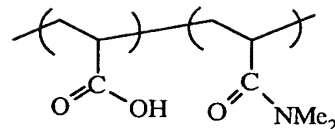
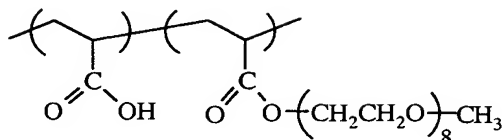
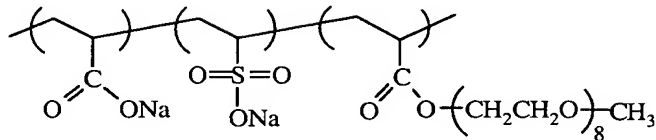
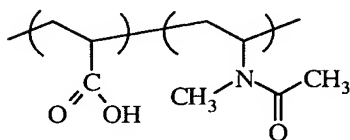
2/17



Poly(acrylic acid)



Poly(acrylic acid-co-acrylamide)

Poly(acrylic acid-co-N,
N-dimethylacrylamide)Poly(acrylic acid-co-poly(ethylene
oxide)methyl ether acrylate)Terpolymer of acrylic acid, vinyl sulfonic acid,
and poly(ethylene oxide) methyl ether acrylate

Poly(acrylic acid-co-N-methyl-N-vinylacetamide)

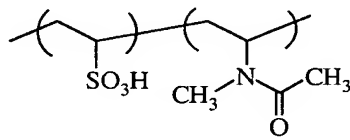
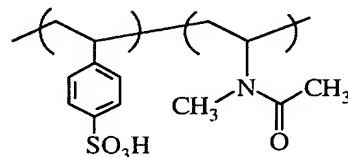
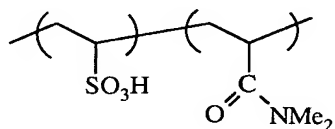
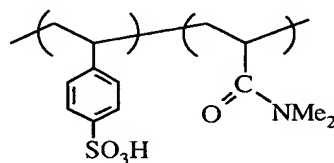
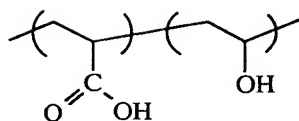
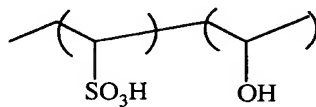
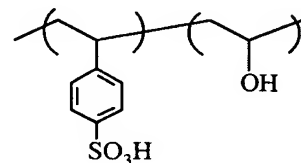
Poly(N-methyl-N-vinylacetamide-
co-vinylsulfonic acid)Poly(N-methyl-N-vinylacetamide-
co-styrene sulfonic acid)Poly(N,N-dimethylacrylamide-
co-vinylsulfonic acid)Poly(N,N-dimethylacrylamide-
co-styrene sulfonic acid)Poly(acrylic acid-co-
vinyl alcohol)Poly(vinyl alcohol-co-
vinyl sulfonic acid)Poly(styrene sulfonic acid-
co-vinyl alcohol)

FIG. 2a

+

+

3/17

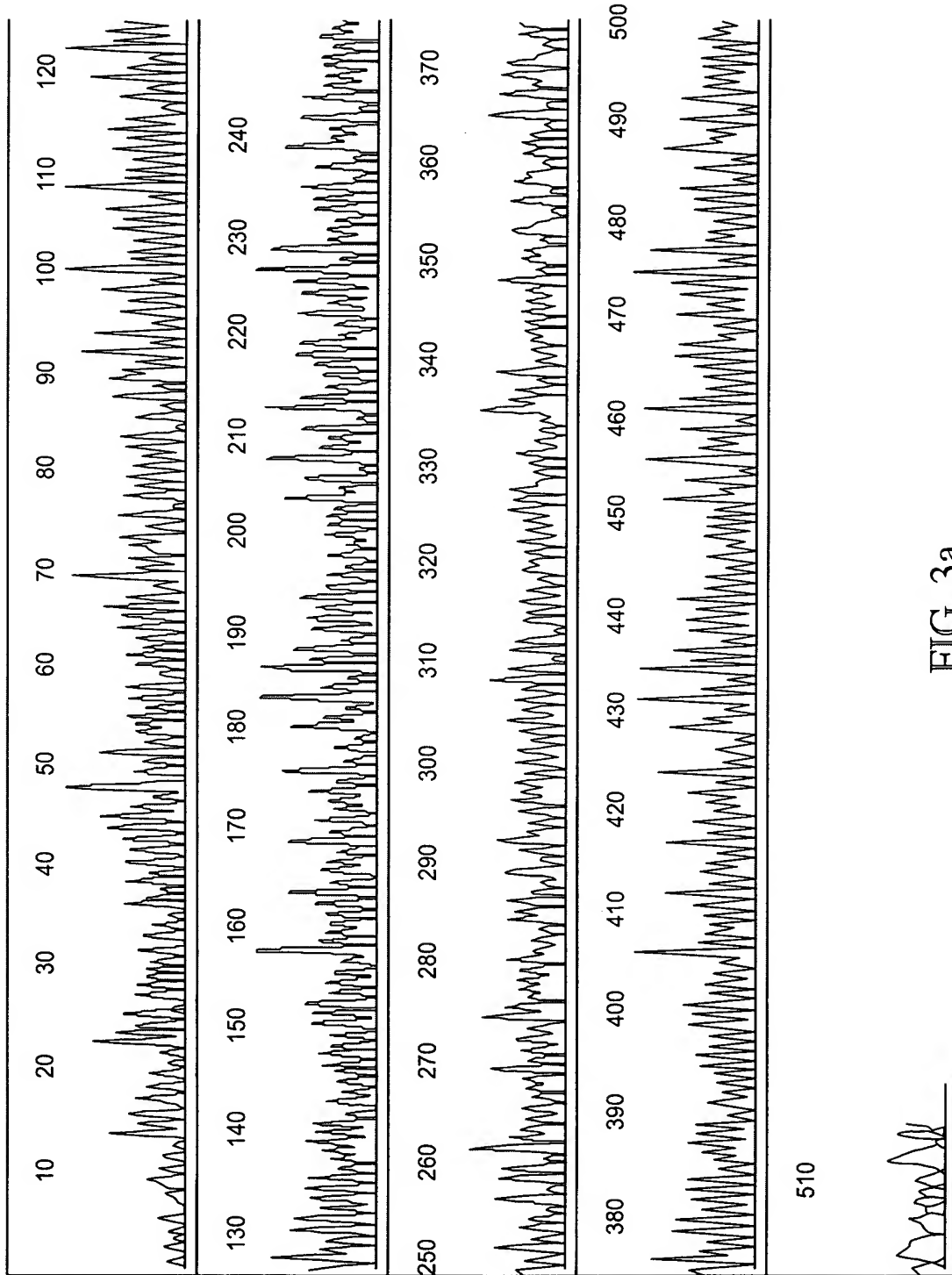


FIG. 3a

+

+

4/17

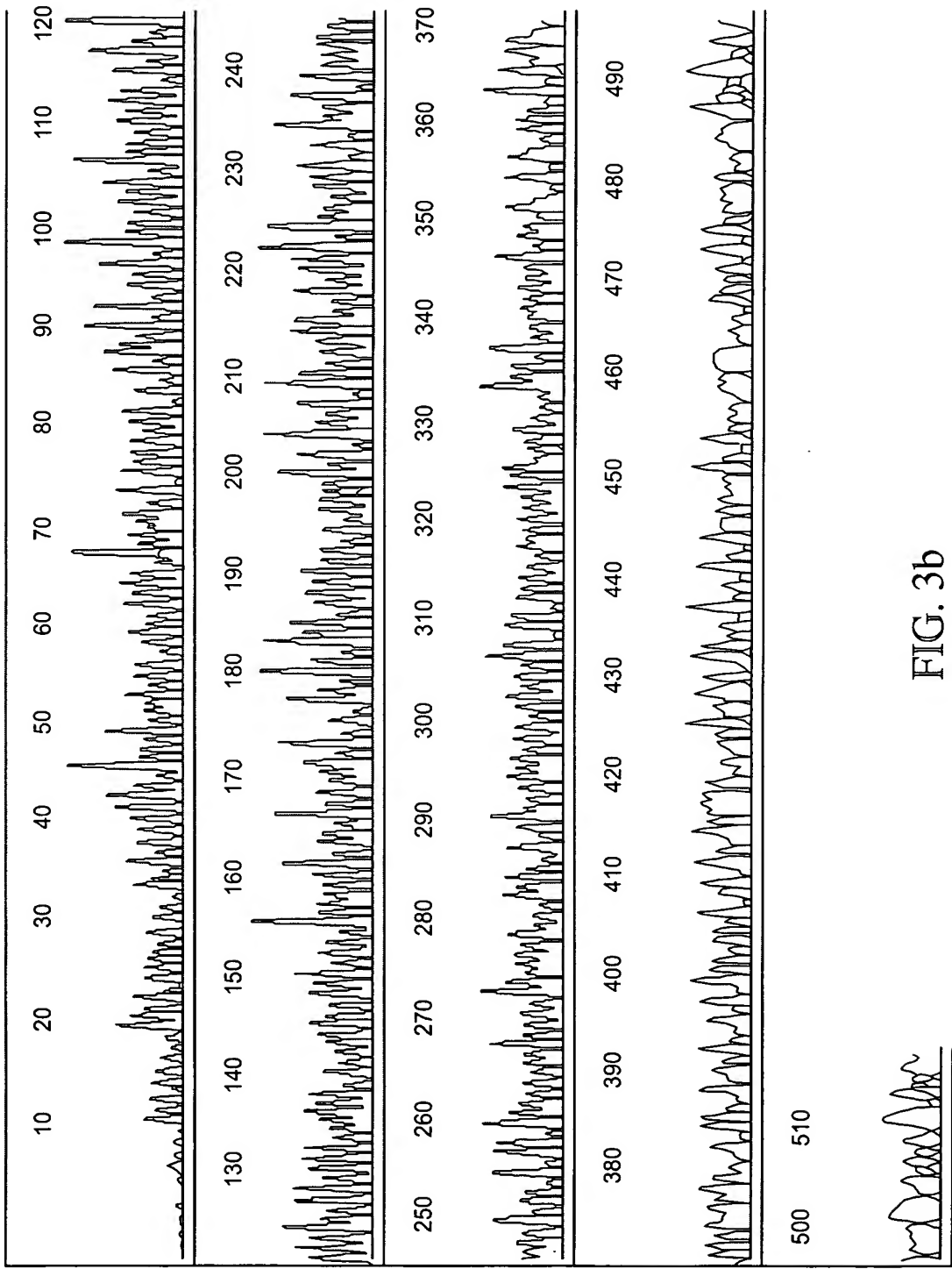
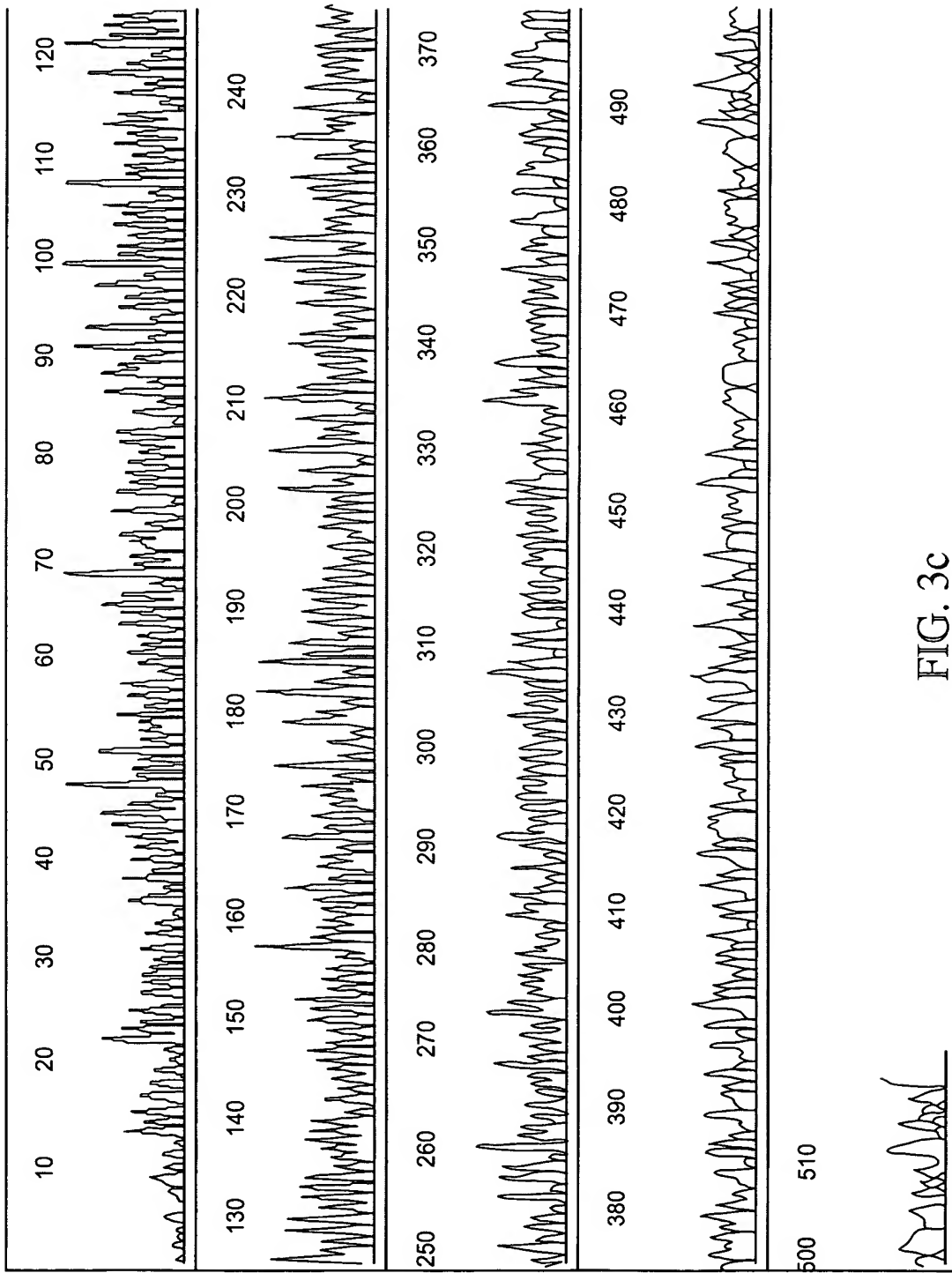


FIG. 3b

+

+

5/17



+

+

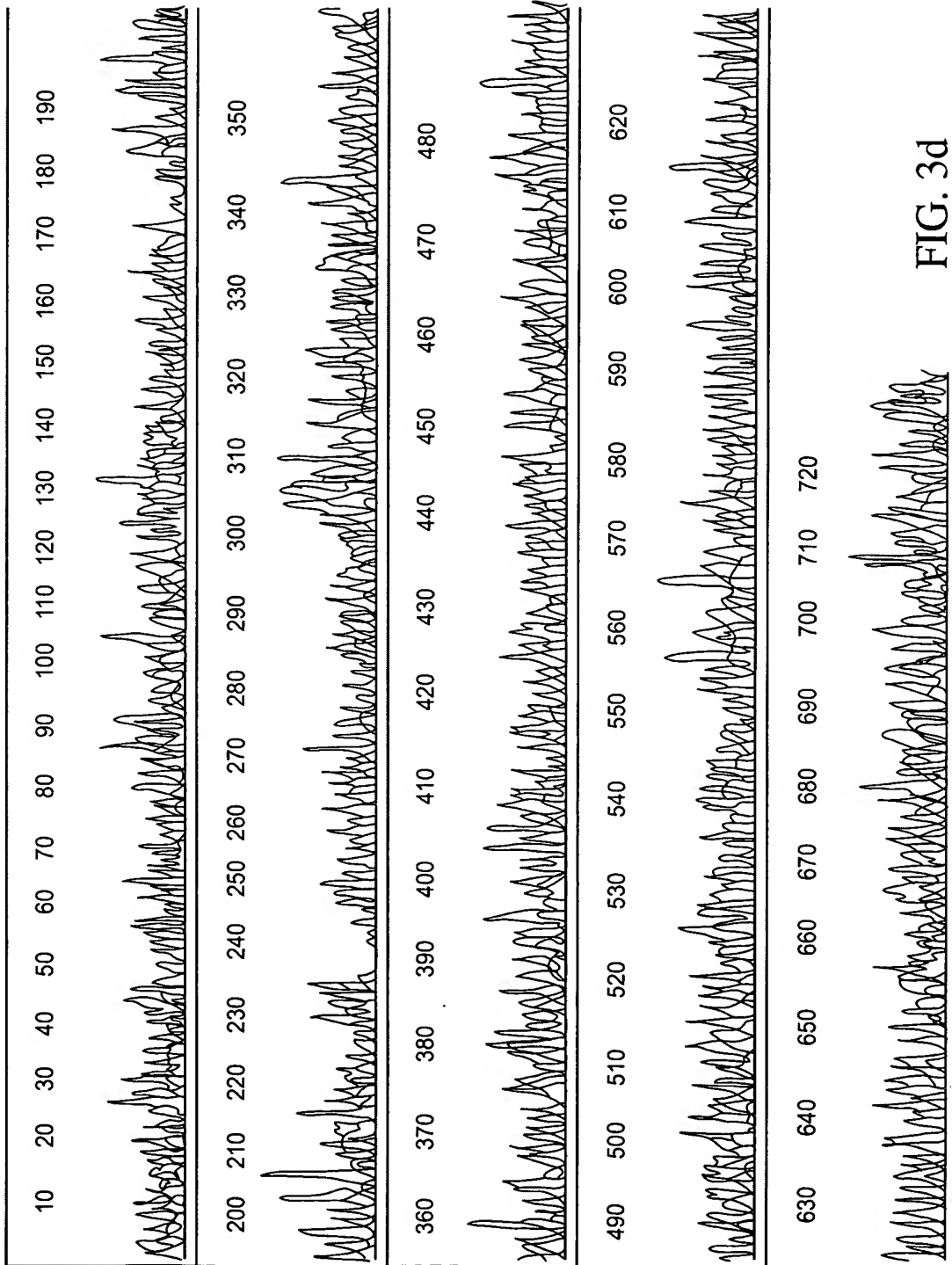


FIG. 3d

+

+

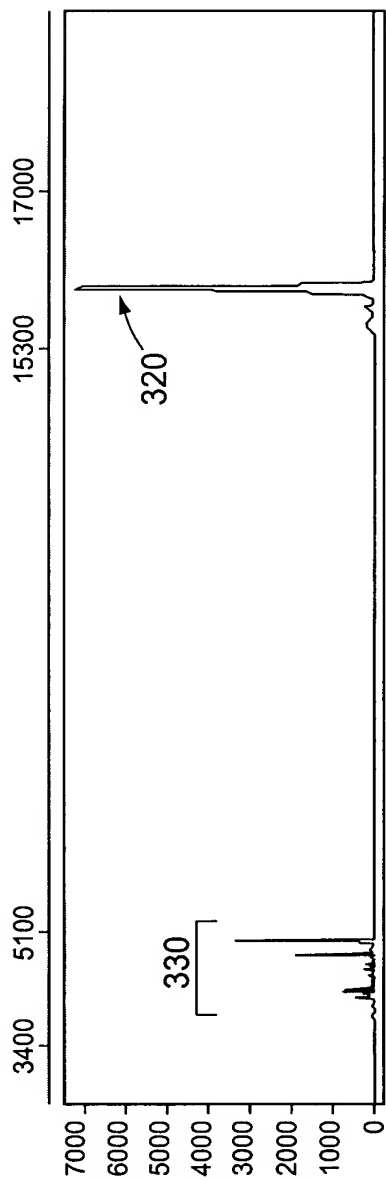


FIG. 4a

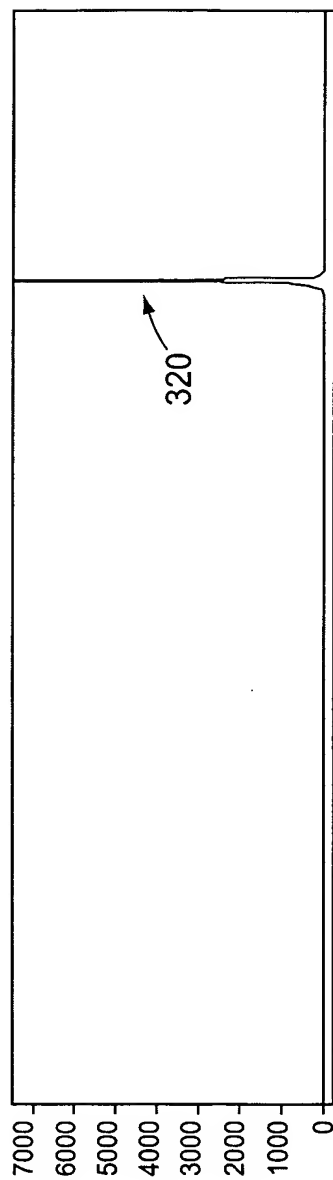


FIG. 4b

+

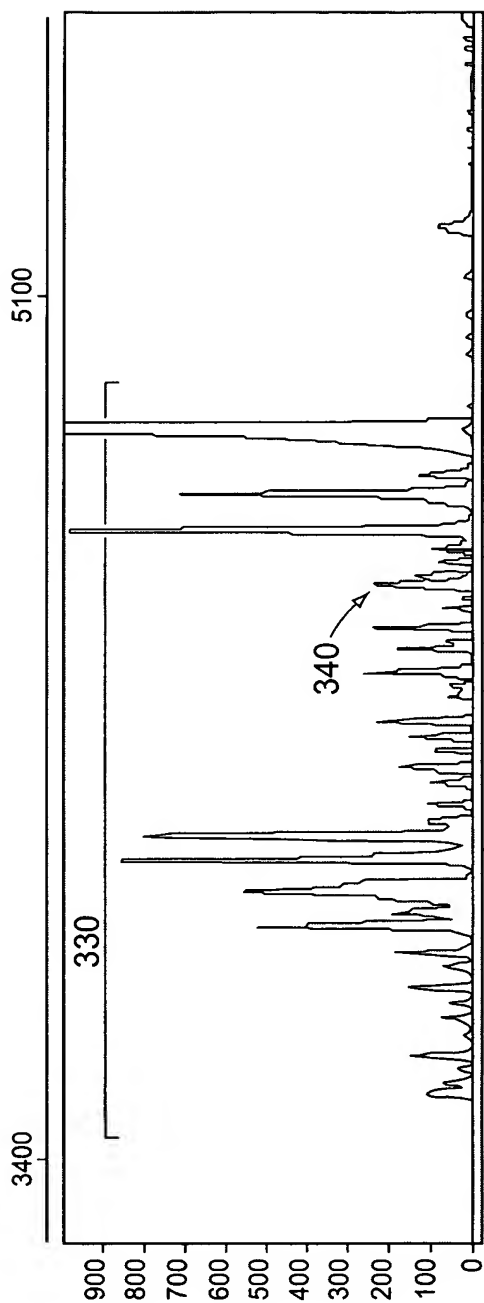


FIG. 5a

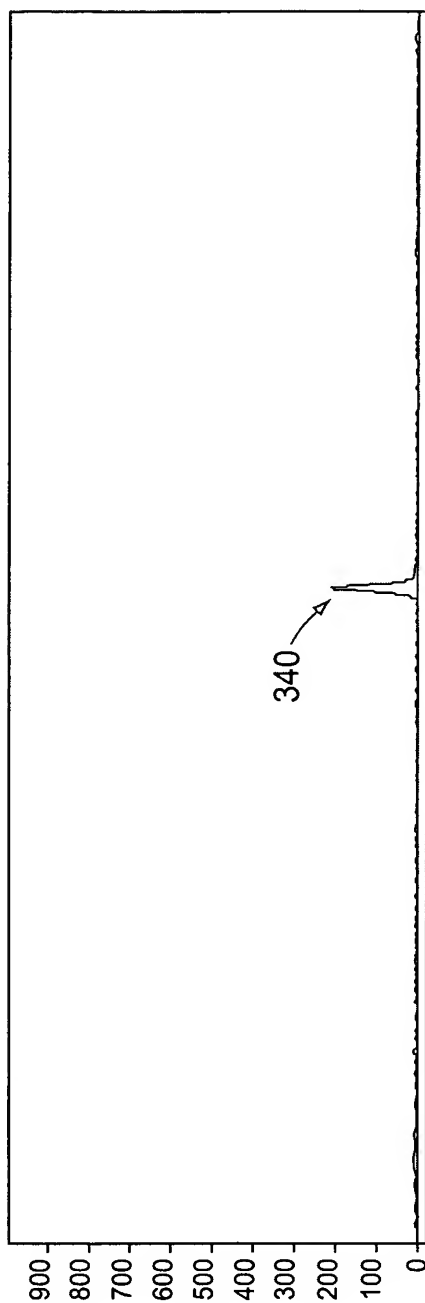


FIG. 5b

+

9/17

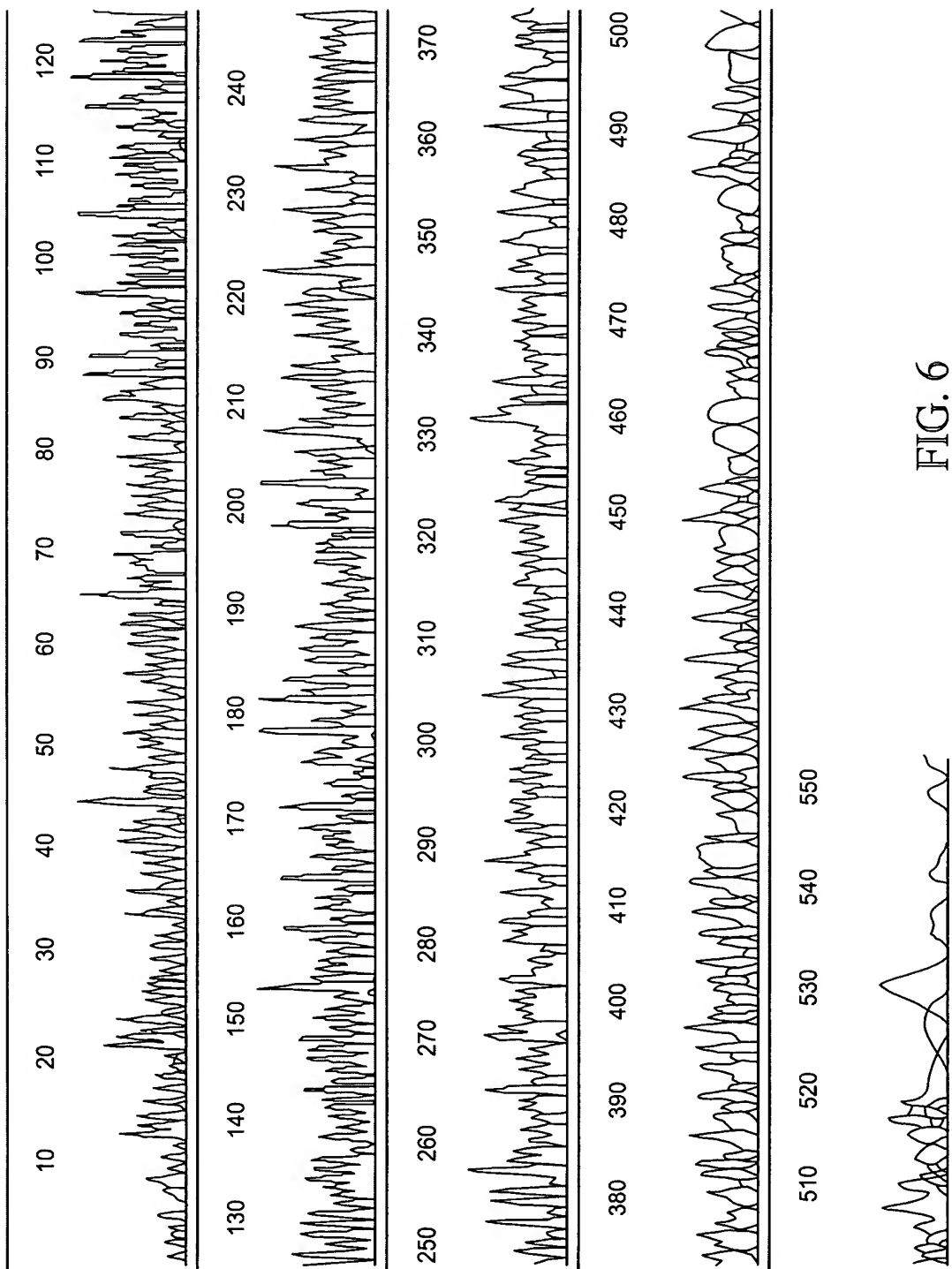


FIG. 6

+

+

10/17

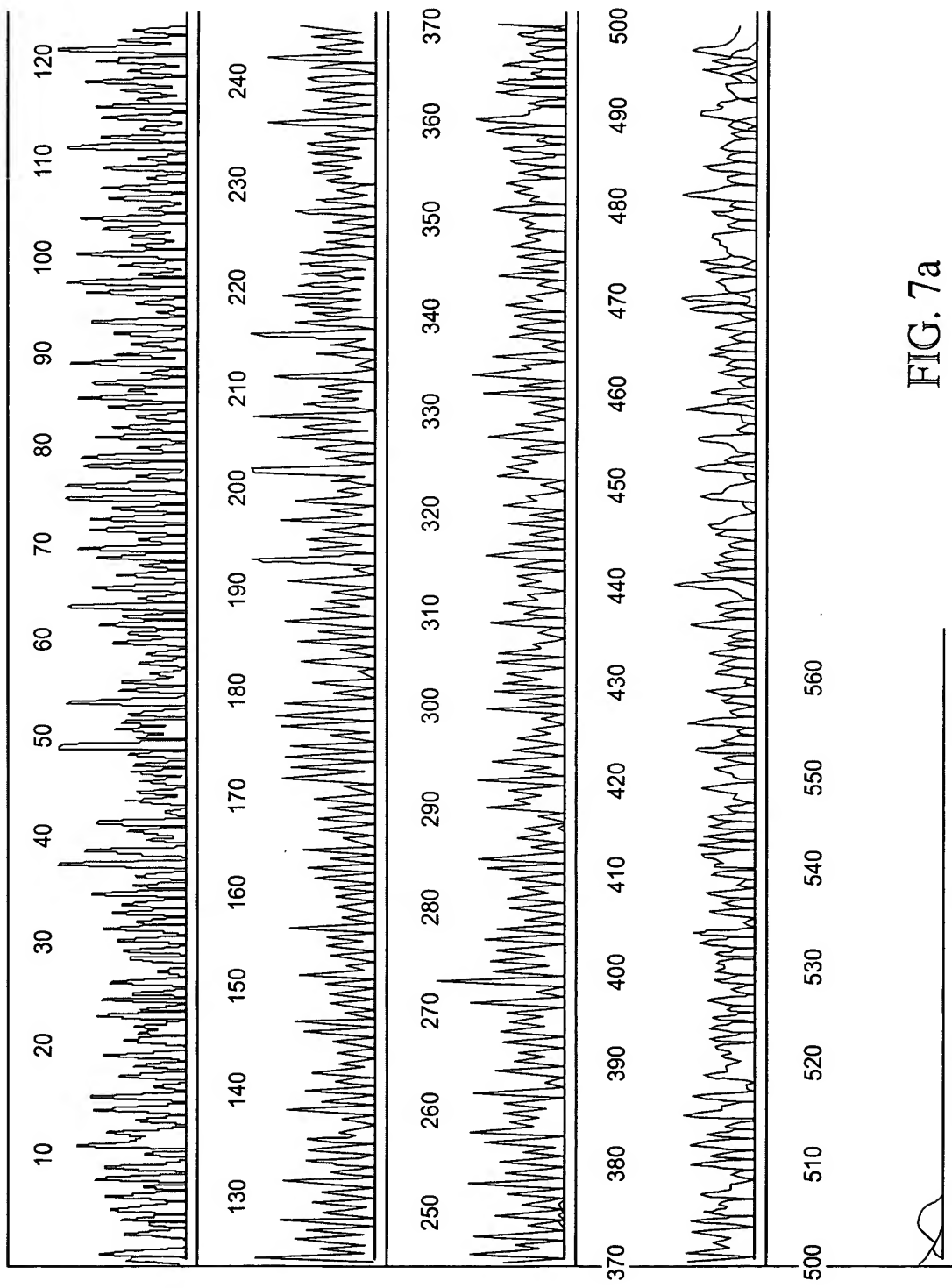


FIG. 7a

+

+

11/17

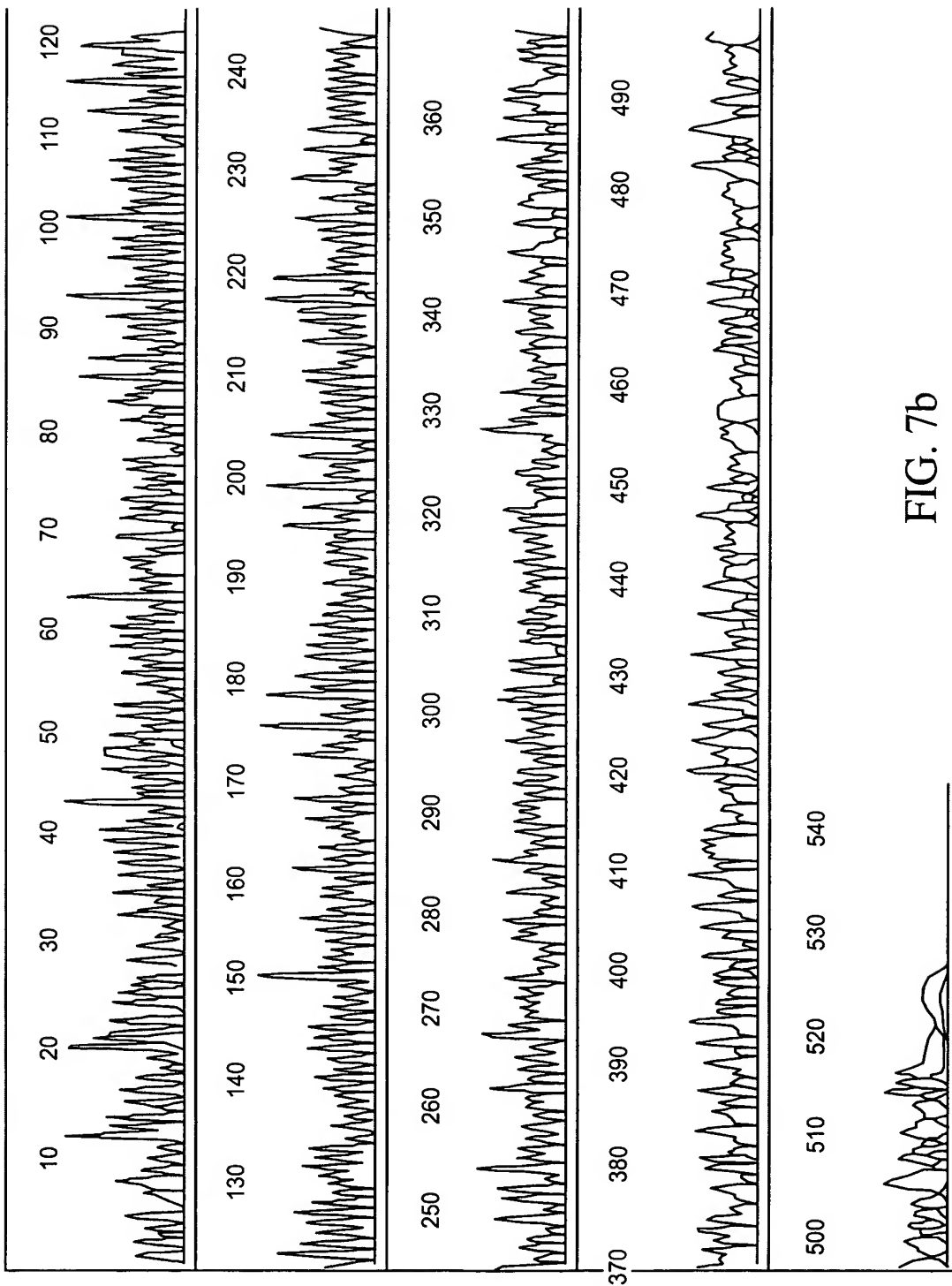


FIG. 7b

+

+

12/17

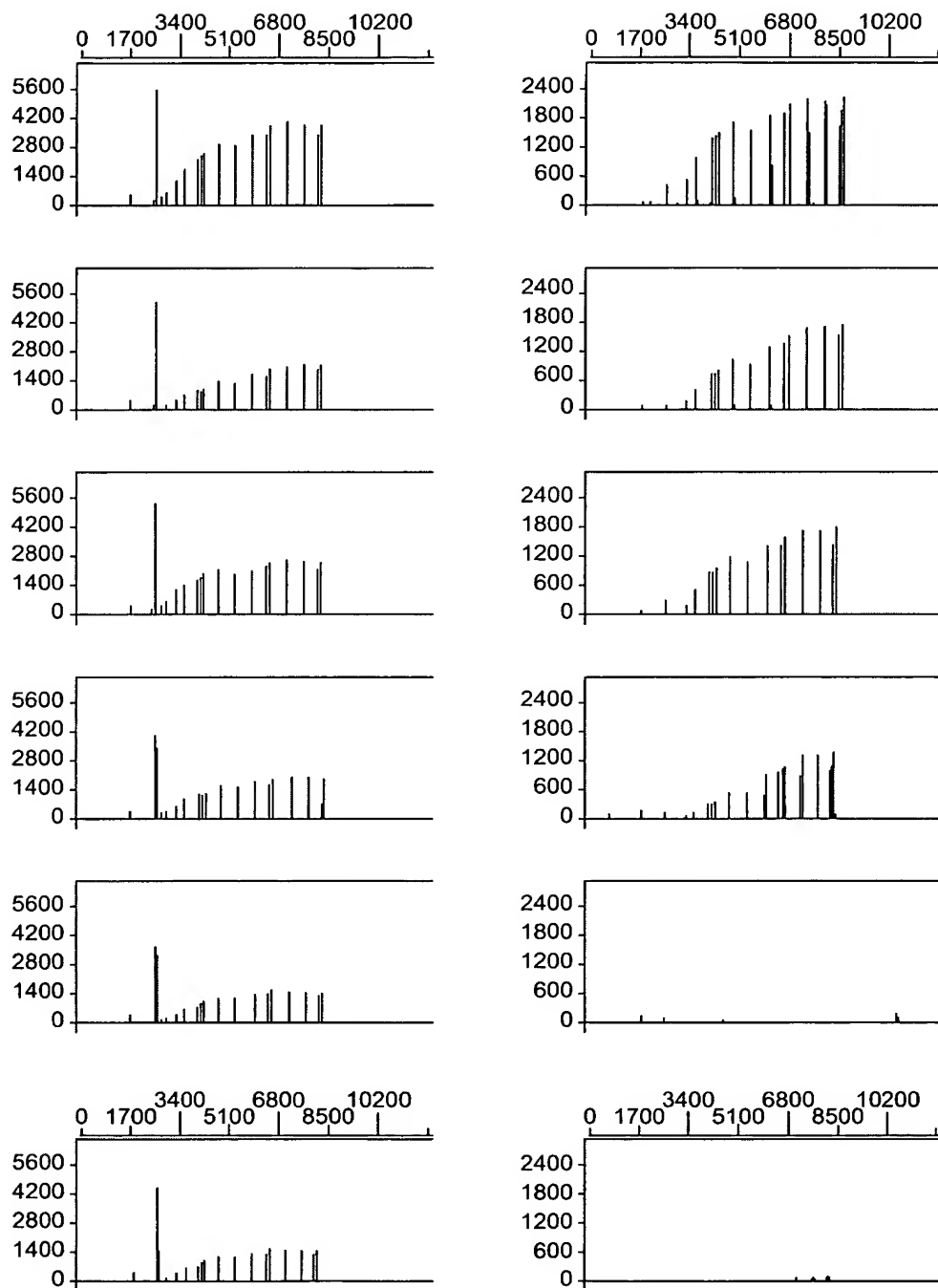


FIG. 8

+

+

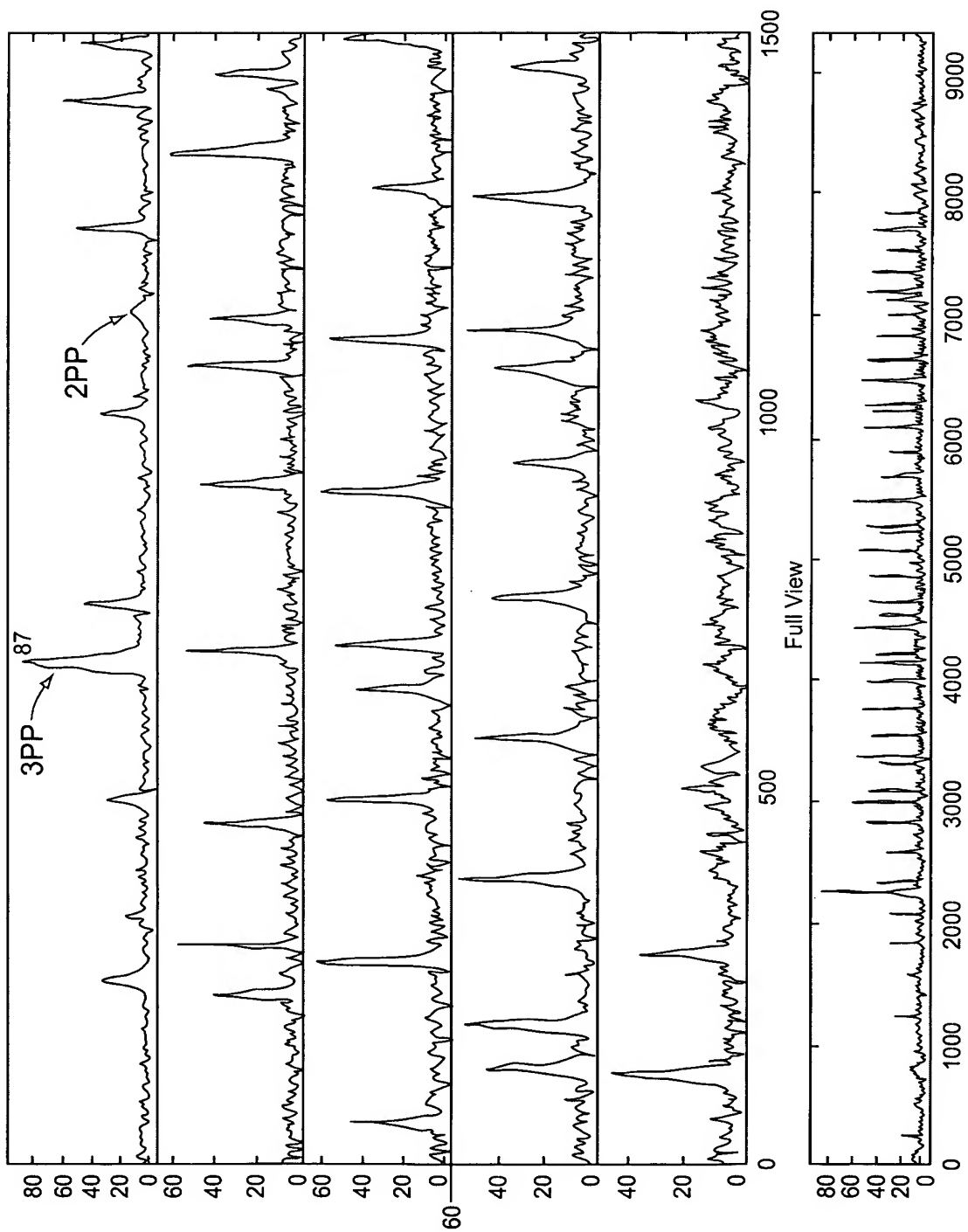


FIG. 9a

+

+

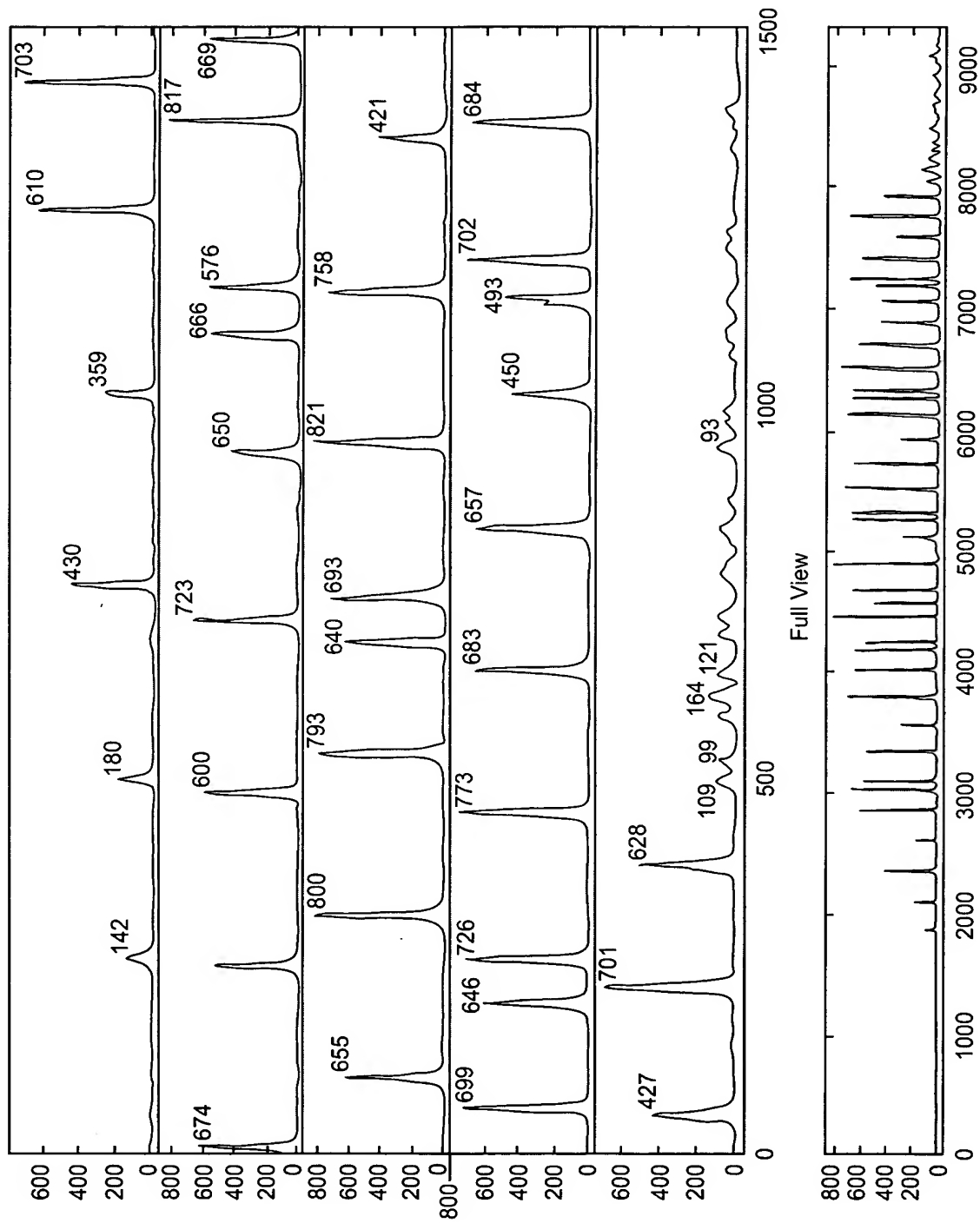


FIG. 9b

+

+

15/17

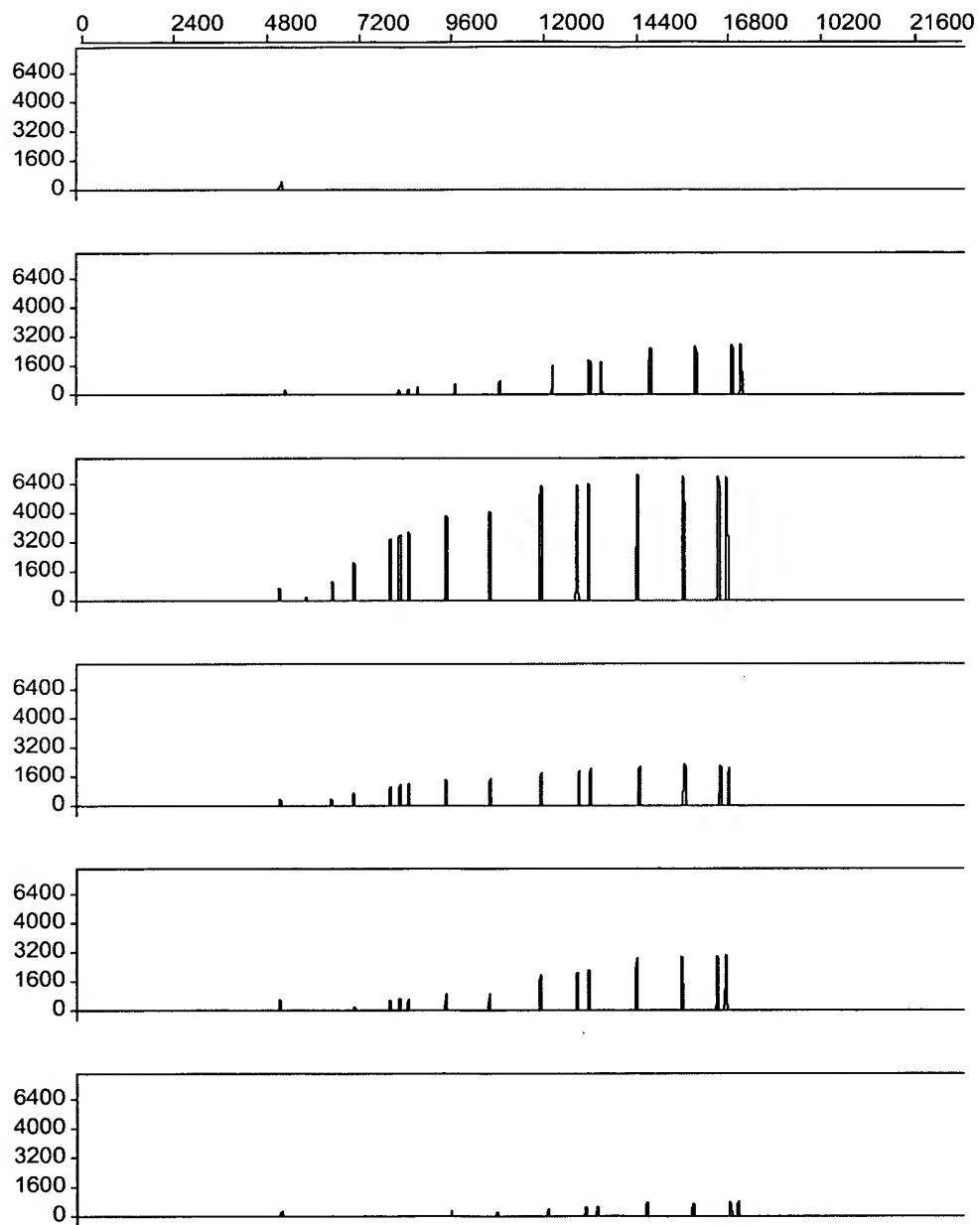


FIG. 10

+

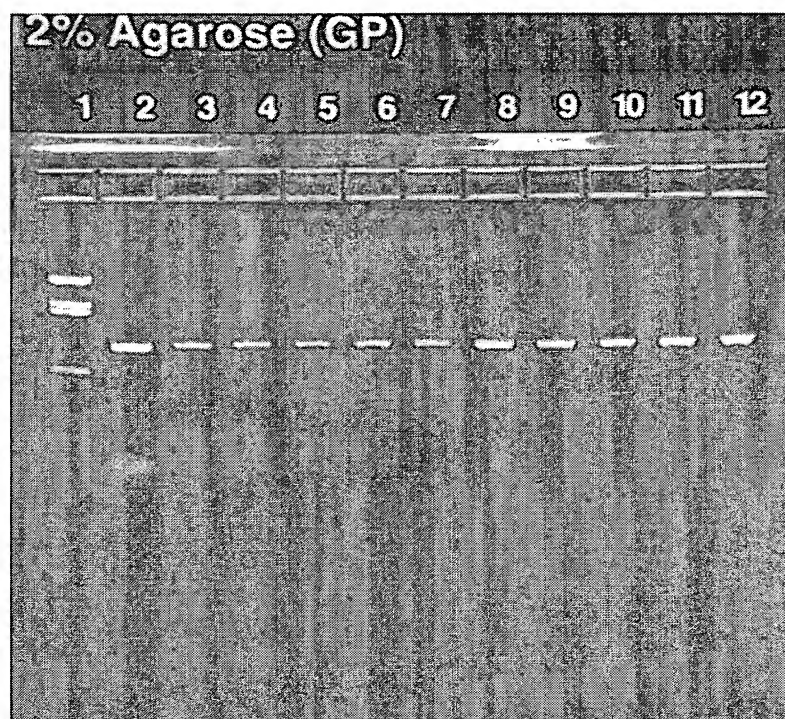


FIG. 11

+

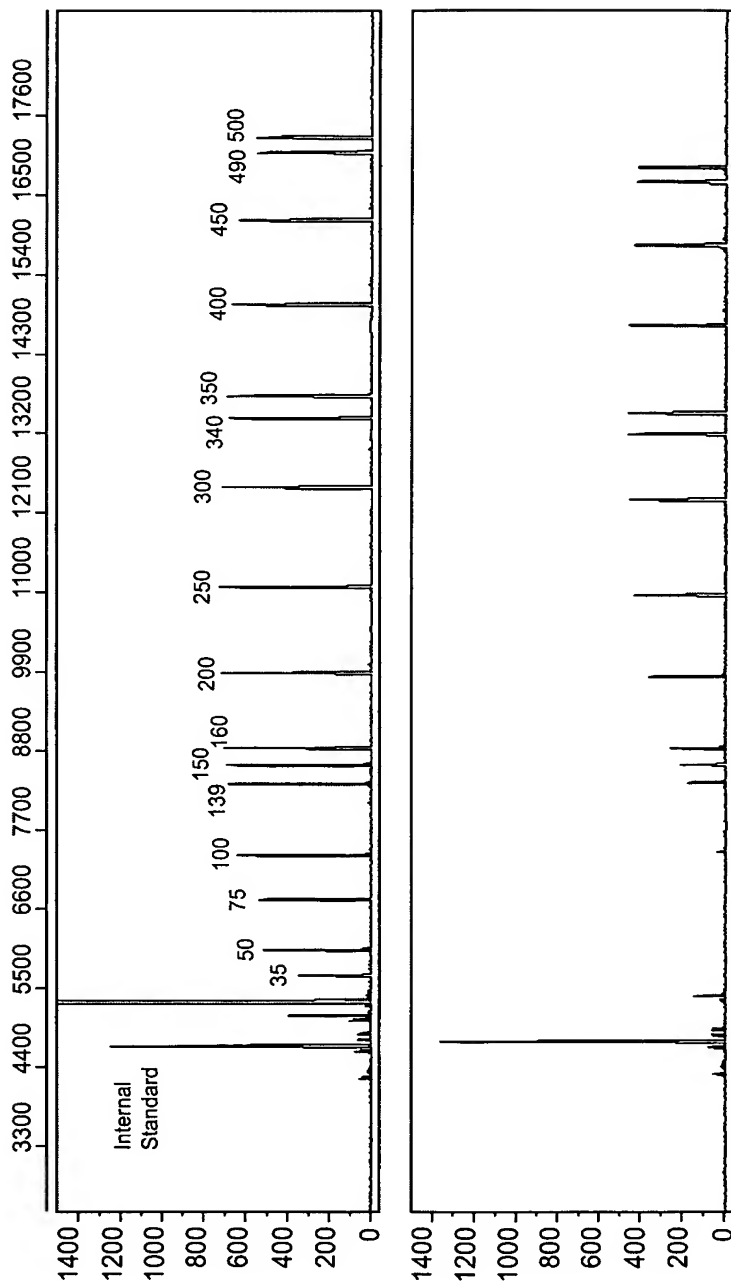


FIG. 12

+